

**ABSTRACT**

The present invention provides a new propylene-containing compositions, which preferably are suitable for polymerization disposition. The propylene-containing compositions include propylene, propane, dimethyl ether and one or more of ethylene, ethane, methanol, acetylene, methyl acetylene, propadiene, C4+ hydrocarbons and water. The propylene-containing composition can be derived from an oxygenate to olefin reaction system without expending resources on propane/propylene separation.